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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/780,618	02/12/2001	Martin Sommer	SGW-109	9111	
23599 75	590 03/08/2004		EXAM	EXAMINER	
MILLEN, WI 2200 CLAREN	HITE, ZELANO & BR	ANIGAN, P.C.	CHEVALIER,	ALICIA ANN	
SUITE 1400	DON BLVD.		ART UNIT	PAPER NUMBER	
ARLINGTON,	VA 22201		1772		
			DATE MAILED: 03/08/2004	4	

Please find below and/or attached an Office communication concerning this application or proceeding.

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•	Application No.	Applicant(s)	V
•	09/780,618	SOMMER ET AL.	
Office Action Summary	Examiner	Art Unit	
	Alicia Chevalier	1772	
The MAILING DATE of this communication appeariod for Reply	ppears on the cover sheet	with the correspondence address	s
A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply to provide the provision of the pro	1. 1.136(a). In no event, however, may poly within the statutory minimum of the difference of the statutory minimum of the cause the application to become	a reply be timely filed nirty (30) days will be considered timely. DNTHS from the mailing date of this commur ABANDONED (35 U.S.C. § 133).	nication.
Status			
 1) Responsive to communication(s) filed on 26 2a) This action is FINAL. 2b) The 25 3) Since this application is in condition for allow closed in accordance with the practice under the 26 	nis action is non-final. vance except for formal ma	atters, prosecution as to the me .D. 11, 453 O.G. 213.	rits is
Disposition of Claims			
4) Claim(s) 1-7 and 9-29 is/are pending in the a 4a) Of the above claim(s) 7,12,23,24 and 28 5) Claim(s) is/are allowed. 6) Claim(s) 1-6,9-11,13-22,25-27 and 29 is/are 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and Application Papers 9) The specification is objected to by the Exam	is/are withdrawn from core rejected. d/or election requirement. iner.		
10) The drawing(s) filed on is/are: a) a	accepted or b) objected	to by the Examiner.	
Applicant may not request that any objection to t	the drawing(s) be held in abe	yance. See 37 CFR 1.85(a).	121(d)
Replacement drawing sheet(s) including the corn 11) The oath or declaration is objected to by the	rection is required if the draw Examiner. Note the attac	ned Office Action or form PTO-	152.
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for fore a) All b) Some * c) None of: 1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the papplication from the International But * See the attached detailed Office action for a	ents have been received. ents have been received i priority documents have be reau (PCT Rule 17.2(a)).	n Application No een received in this National Sta	age
Attachment(s) 1) Notice of References Cited (PTO-892)		ew Summary (PTO-413)	
Notice of References Cited (*10-032) Notice of Draftsperson's Patent Drawing Review (PTO-948 Information Disclosure Statement(s) (PTO-1449 or PTO/SE Paper No(s)/Mail Date	, D Notice	No(s)/Mail Date of Informal Patent Application (PTO-15	52)

Art Unit: 1772

RESPONSE TO AMENDMENT

Request for Continued Examination

- 1. The Request for Continued Examination (RCE) under 37 CFR 1.53 (d) filed on November 26, 2003 is acceptable and a RCE has been established. An action on the RCE follows.
- 2. Claims 1-7 and 9-29 are pending in the application, claims 7, 12, 23, 24 and 28 are withdrawn from consideration due to restriction by original presentation, in paper #9 mailed February 26, 2003.
- 3. Amendments to claims, filed on November 26, 2003, have been entered in the above-identified application.

WITHDRAWN REJECTIONS

- 4. The 35 U.S.C. §102/103 rejection of claims 15-22 and 25-27 over Hall (US Patent No. 4,135,789), made of record in paper #9, pages 4-5, paragraph #13 has been withdrawn due to Applicant's amendment filed November 26, 2003.
- 5. The 35 U.S.C. §102/103 rejection of claims 1-3, 5, 9, 10, 13-15, 21, 22, 26 and 27 over Ahn et al. (US Patent No. 3,852,877), made of record in paper #9, pages 5-6, paragraph #14 has been withdrawn due to Applicant's amendment filed November 26, 2003.
- 6. The 35 U.S.C. §102/103 rejection of claims 1-3, 5, 13-15, 21, 22, 26 and 27 over Wainer (US Patent No. 4,073,989), made of record in paper #9, pages 6-7, paragraph #15 has been withdrawn due to Applicant's amendment filed November 26, 2003.

Application/Control Number: 09/780,618 Page 3

Art Unit: 1772

7. The 35 U.S.C. §102/103 rejection of claims 1-2, 4-11, 13-15, 17-22 and 25-27 over Myers (US Patent No. 4,152,712), made of record in paper #9, pages 7-8, paragraph #16 has been withdrawn due to Applicant's amendment filed November 26, 2003.

8. The 35 U.S.C. §102/103 rejection of claims 1-3, 5-10, 13-15, 21, 26 and 27 over Tukude (US Patent No. 4,702,566), made of record in paper #9, pages 9-10, paragraph #17 has been withdrawn due to Applicant's amendment filed November 26, 2003.

NEW REJECTIONS

9. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Examiner's Summary of the Invention

- 10. To the best of the examiner's knowledge, the elected base, or independent, claims of the application, are interpreted as follows:
 - 1. A molded element comprising:
 - brittle-fracture material
 - at least one opening
 - hermetically sealed with a sealing element
 - wherein the molded element and the sealing element are permanently bonded together by a pressure weld.

Art Unit: 1772

15. A molded element comprising:

- brittle-fracture material
- at least one opening to a cavity
 - hermetically sealed with a sealing element
- wherein the molded element and the sealing element are permanently bonded together by a cold pressure weld.
- 29. A molded element comprising:
- brittle-fracture material
- at least one opening
 - hermetically sealed with a sealing element
- wherein the molded element and the sealing element are permanently bonded together by a diffusion weld.

Claim Rejections - 35 USC § 112

11. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

12. Claim 29 is rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter, which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. In the instant case new claim 29 contain(s) the limitation "diffusion weld." The specification does

Art Unit: 1772

not disclose that the use of a diffusion weld to permanently bond the molded element and the sealing element together, therefore this limitation is considered new matter.

The examiner could only find support for pressure weld, welding by solid elements, welding by liquids, welding by gas, welding by electrical gas discharge, welding by movement, welding by electric current, welding by movement breaks, ultrasound welds, cold pressure weld, abrasive welds, and shock welds, see specification page 6, line 25 through page 7, line 13.

The new matter should be deleted.

Claim Rejections - 35 USC § 102

13. Claims 1-6, 9-11, 13-22, 25-27 and 29 are rejected under 35 U.S.C. 102(b) as being anticipated by Hall (U.S. Patent No. 4,135,789).

Regarding Application's claims 1, 15 and 29, Hall discloses a seal for a liquid crystal display (*title*) comprising a glass plate (*col. 2, lines 45-46*), Applicant's claimed "molded element" made of "brittle-fracture material," with a one or several fill ports (*col. 3, line 1*), Applicant's claimed "at least one opening" and "at least one opening to a cavity," a glass bead (*col. 3, line 18*), Applicant's claimed "sealing element," is then sealed permanently, Applicant's claimed "molded element and sealing element permanently bonded together," and hermetically, Applicant's claimed "opening ... hermetically sealed by a sealing element," to form an integral part of the glass wall through which it extends (*col. 3, lines 6-9*).

The limitations "pressure weld," "cold pressure weld," and diffusion weld" are method limitations and do not determine the patentability of the product, unless the process produces unexpected results. The method of forming the product is not germane to the issue of

Art Unit: 1772

patentability of the product itself, unless Applicant presents evidence from which the Examiner could reasonably conclude that the claimed product differs in kind from those of the prior art.

MPEP 2113.

Regarding Applicant's claim 2, Hall discloses glass plate (*col. 2, lines 45-46*), Applicant's claimed "molded element" is made of glass.

Regarding Applicant's claims 3-5, 10, 11, 14, 17, 18 and 25, Hall discloses that the a glass bead, Applicant's claimed "sealing element," comprise a glass, Applicant's claimed "brittle-fracture material," and is coated with a conductive metal disc (col. 3, lines 26-28).

Figure 3 shows that the glass bead has a cylindrical shape.

Regarding Applicant's claim 6, Hall discloses a glass plate (col. 2, lines 45-46), Applicant's claimed "molded element" and figure 3 shows that the at least one opening has the shape of a through-going cylindrical opening.

Regarding Applicant's claims 9, 13, 26 and 27, the limitation "bonded by welding by movement" or "bonded by ultrasound weld, high-frequency weld, rotary weld, friction weld, torsional, or orbital weld, cold pressure weld or abrasive weld" is a method limitation and does not determine the patentability of the product, unless the process produces unexpected results. The method of forming the product is not germane to the issue of patentability of the product itself, unless Applicant presents evidence from which the Examiner could reasonably conclude that the claimed product differs in kind from those of the prior art. MPEP 2113.

Regarding Applicant's claim 16, Hall discloses that the cavity (col. 3, line 4), is filled with liquid crystal material (col. 3, line 14) or electrochromic filling (col. 4, lines 66).

Regarding Applicant's claims 19 and 20, since Hall discloses that the glass plate (col. 2, lines 45-46), Applicant's claimed "molded element," and glass bead (col. 3, line 18), Applicant's claimed "sealing element," and made of the same material, i.e. glass, it is expected that they will have the same coefficients of thermal expansion.

Regarding Applicant's claims 21 and 22, Hall discloses the glass plate (col. 2, lines 45-46), Applicant's claimed "molded element," has one or several fill ports (col. 3, line 1), Applicant's claimed "one opening" and "two opening."

ANSWERS TO APPLICANT'S ARGUMENTS

14. Applicant's arguments in the response filed November 26, 2003 regarding pressure welding of record have been carefully considered but are deemed unpersuasive.

Applicant argues that a pressure weld leads to structural difference in the bond and stated that proof could be found in the "*Principles of Welding* ..." text provided to the office.

However, the text did not accompany Applicant's response.

Also, Applicant has not provided an affidavit showing that the prior art of record does not possess the same characteristics, i.e. that the feature is not a latent property of the Hall technology.

Applicant also adds that page 9 of the specification discloses that a diffusion weld process can also be use, however the specification does not have a page 9.

Art Unit: 1772

Conclusion

15. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alicia Chevalier whose telephone number is (571) 272-1490. The examiner can normally be reached on Monday through Friday from 8:00 am to 4:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Harold Pyon, can be reached on (571) 272-1498. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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